BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

Name of Work :Improvements to roads & drain at 4th, 5th, 6th, 7th, 8th, 10th & 11th Cross (Left & Right Side) 8th main road Bhuvaneshwari nagara in Ward No.14, Bagalagunte.

Sl	Description of Item	Unit	No	L	B	D	Est. Cost Rs 45.00 Lakhs Qty	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in **Ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (P.138/I.19.1 PW, P & IWTD -SR 2014-15)								
		Cum							
			1	1616.00	1.20	0.30	**581.76**	75.60	**43981.00**
	Basic Rate	70.00							
	Add Area Weightage 8%	5.60							
	Total	**75.60**							
2	**Compaction** of original ground with maximum of 6 passes of 8 to 10 tonnes power **roller** including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. (PWD SR 2014-15, Page No.145, Item No. 19.64)								
		Sqm							
			1	1616.00	1.20		**1939.20**	4.48	**8691.00**
	Basic Rate	4.15							
	Add Area Weightage 8%	0.33							
	Total	**4.48**							
3	Providing, laying, spreading and compacting graded stone aggregates to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of								
		Cum							
			1	1616.00	1.20	0.30	581.76		
							581.76	1438.56	**836897.00**
	Basic Rate	1332.00							
	Add Area Weightage 8%	106.56							
	Total	**1438.56**							
4	Providing and applying **primer coat** with S.S. Bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.6 kg / sqm using mechanical means complete as per specifications, with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWDSR 2014-15, P.No.157, I No.21.6)								
		Sqm	1	1616.00	1.20		1939.20		
							1939.20	34.56	**67011.00**
	Basic Rate	32.60							
	Add Area Weightage 6%	1.96							
	Total	**34.56**							

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5	ng and laying **bituminous macadam** on prepared surface with ied coarse aggregates as per design mix formula for base / binding urse including loading of aggregates with F.E. loader, hot mixing of tone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications with 80/100 grade bitumen using 40/60TPH capacity H.M.P with sensor paver Gr II (50/75mm) with 3.3% VG-30 Bitumen as per the directions of Engineer-in-charge of the work (PWDSR 2014-15, P.No.158, I No.21.11.4)								
		Cum	1	1616.00	1.20	0.05	96.96	6957.36	674586.00
	Basic Rate	6442.00							
	Add Area Weightage 8%	515.36							
	Total	**6957.36**							
6	Providing and applying **tack coat** on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (exlcuding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications Engineer-in-charge of the work (PWDSR 2014-15, P.No.157, I No.21.7)								
		Sqm							
			1	1616.00	4.30		6948.80	18.74	130207.00
	Basic Rate	17.35							
	Add Area Weightage 8%	1.39							
	Total	**18.74**							
7	Providing and laying **semi dense bituminous concrete** 25 - 30mm compacted thickness with 5% bitumen with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled vibratory and ttandem rollers to achieve the desired compaction as per MoRTH specification clause No. 508 complete in all respects with 80 / 100 grade bitumen with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. (PWDSR 2014-15, P.No.159, I No. 21.20.2)								
		Cum	1	1616.00	5.50	0.03	266.64		
	Basic Rate	9122.00					266.64	9851.76	2626873.00
	Area Weightage 8%	729.76							
	Total	**9851.76**							
8	Carraige of Mixed Materials above 15 Km beyound 10Km to 15 Kmslead at P-168, d 15x4.90=73.50	Cum	**Qty Vide Item No 06**				**266.64**	73.50	**19598.00**
9	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading **Page No. 150 Item No. 17.1 PWD SR 2013-14**								
			Qty Vide Item No. 1				**581.76**	78.24	**45517.00**
	Loading and Unloading Charges	62.20							

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Lead 4 KMs 2x1.28x4	10.24	
	72.44	
Area Weightage @ 8%	5.80	
Total	78.24	
Qty control Test Charges 1%		
Miscellaneous and Unforeseen Charges		

(Rupees. Forty Five Lakhs Only)

CERTIFICATE:-

1. The Work spot has been inspected and the work is found to be necessary
2. The Estimate is prepared as per the PW,P & IWTD -SR-2014-15
3. The Provision made in estimate are adequate and essential.
4. This area comes under BBMP limits.

Assistant Engineer
Ward-14

Assistant Executive Engineer
T. Dasarahalli Sub-Division
B.B.M.P

Executive Engine
Dasarahalli Divis
B.B.M.P. Bangal

A/S

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45.00 lakhs (Rupees forty five lakhs only)

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